IADSL Module

24-Port DSLAM Access Module

Product Features

- 24 ports of G.DMT or G.Lite ADSL, configurable individually on a port-by-port basis, along with baseband POTS
- Front Panel LEDs for power/card status and loop status for each subscriber loop
- Interface rates individually configurable at particular upstream/downstream rate combinations or rate adapting to best rates available on loop
- Upstream/downstream rates independently configurable in 32 kbps increments
- Upstream and downstream max, min and target SNR margin configurable individually on port basis
- POTS Loop Start and Ground Start as software options
- Flow-through provisioning from the switch through GR-303 to the IADSL module
- V.90 modem support
- Flash download
- Fully hot-swappable
- Industry-leading 10-year warranty

As broadband continues to grow in popularity and demand, Asymmetric DSL (ADSL) remains a major DSL service offering. Carriers are faced with the operational challenge of delivering both POTS and ADSL in the most efficient manner.

The ADTRAN™ Integrated ADSL (IADSL) module is an access module for the Total Access® 3000 DSLAM platform that provides ADSL, splitter, and POTS functions for 24 subscriber interfaces. It works in conjunction with the DS3 Cell Switch Module to provide a complete solution for ADSL and POTS interfaces.

The IADSL module for the Total Access 3000 DSLAM provides 24 ports of G.DMT or G.Lite ADSL, configurable individually on a port-by-port basis, along with baseband POTS. In order to provide the most deployment flexibility to carriers providing these services, ADTRAN has engineered the IADSL module for maximum capability and responsiveness:

- Interface rates individually configurable at particular upstream/downstream rate combinations or rate adapting to best rates available on loop
- Upstream/downstream rates independently configurable in 32 kbps increments
- Upstream and downstream maximum, minimum, and target Signal-to-Noise Ratio (SNR) margin configurable individually on port basis
- POTS Loop Start and Ground Start support
- V.90 modem support

ADTRAN has made loop testing easy by integrating Metallic Test Access supported with test relays that put local loops onto the Total Access 3000 DSLAM test bus (via 4-wires) for testing through an external test head.

The IADSL card supports both SNMP and standard TL1 test commands for easy management and operation. Operations, Administration, Management & Provisioning (OAM&P) is performed via the Enhanced System Controller Unit (ESCU) of the Total Access 3000 DSLAM. The Total Access Element Management System (EMS) is a GUI-based management system that provides one-click provisioning and sophisticated centralized management capabilities.

POTS interfaces are delivered through a T1 on the front panel of the card. A pushbutton toggles the Port LED status between POTS and ADSL indications. The POTS or ADSL indication state is determined by the position of the button. The card defaults to the ADSL indication. POTS status is only shown when the user is pushing the button. A software option available via the craft interface screen allows the default option to be changed.

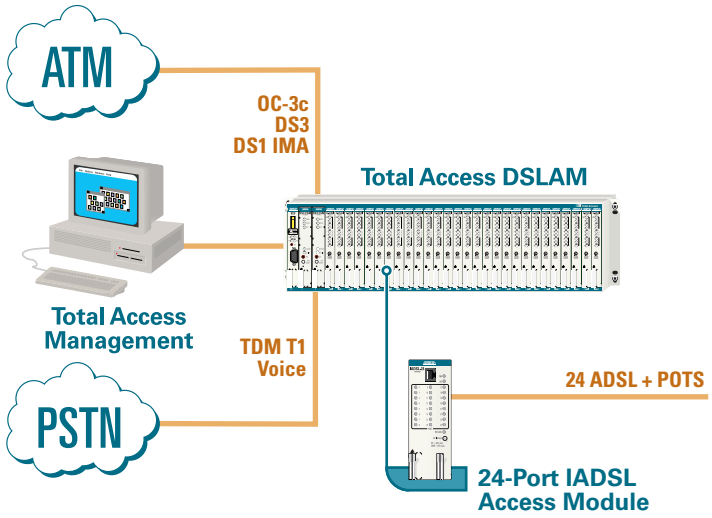
Total Access® System

ADTRAN®

IADSL Module

Total Access® System

24-Port DSLAM Access Module



Product Specifications

Front Panel Features

- 1 Power LED
- 1 T1 Status LED
- 1 LED for port indication (either ADSL or POTS)
- 24 port LEDs

Mechanical

- **Dimensions:** 5.35 in. H x 1.98 in. W x 10.2 in. D
- **Weight:** 2 lbs. to 3 lbs.
- **Mounting:** Occupies three slots in the Total Access 3000 or 3010 chassis

Interfaces

ATM Network Interfaces

- DS3
- OC-3c
- DS1 IMA

TDM Network Interfaces

- DS1

Subscriber Interfaces

- POTS
- ADSL (G.DMT)
- ADSL (G.Lite)

Electrical

Power Requirements

- –42 VDC to –56 VDC input voltage range
- Can operate from either Total Access 3000 power bus, A or B.

Regulatory Standards

- NEBS Level 3
- GR-1089-CORE
- UL 1950
- T1.413
- G.992.1 Annex A
- G.992.2 Annex A

Management

- **Local Management:** via SCU using VT100
- **Remote Management:** SNMP with support in the Total Access EMS, TL1

Environmental

- Operating: –40°C to +75°C
- Storage: –40°C to +85°C
- Relative Humidity: Up to 95 percent, noncondensing

Ordering Information

Equipment	Part #
IADSL Access Module	1181424L1

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